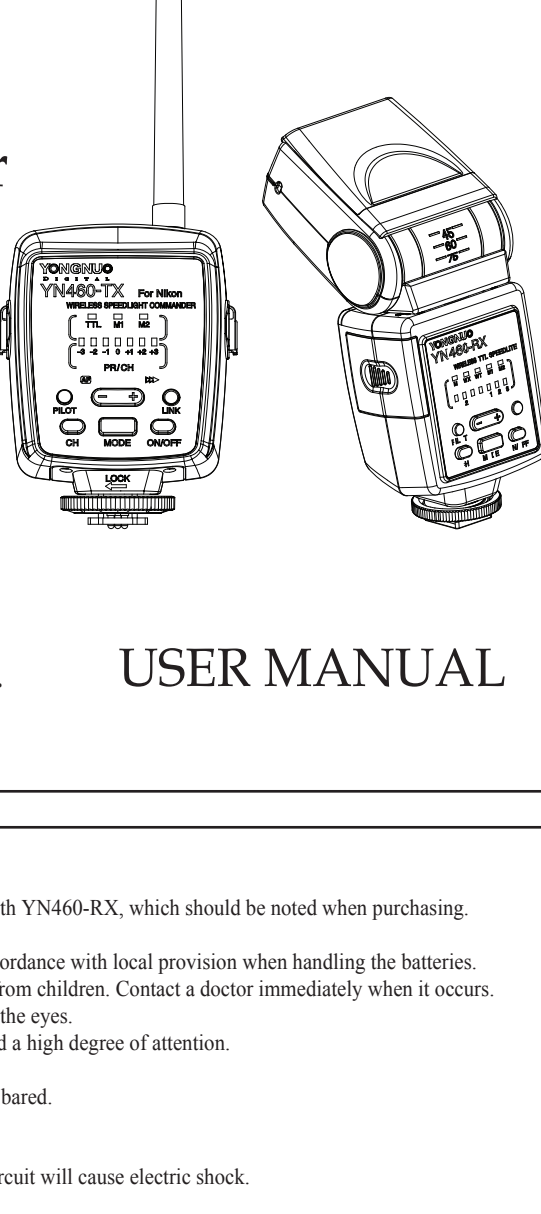


# Wireless speedlite commander

## YN460-TX

# Wireless TTL speedlite

## YN460-RX



Ensure your safety. Please READ this user manual carefully in order to  
ensure your safety. Keep it properly for reference in the future.

## USER MANUAL

### I. Warning

To complete the shooting, a set of YN460-TX will be needed at least to support with YN460-RX, which should be noted when purchasing.  
To avoid fire or electrical shock, do not expose this product to rain or moisture.  
Do not short circuit, or connect the battery contacts are securely packed and in accordance with local provision when handling the batteries.  
Please place the batteries and the parts which can be swallowed mistakenly away from children. Contact a doctor immediately when it occurs.  
To avoid possible injury to eyes, do not use the flash light in a short distance from the eyes.  
To avoid possible safety accident, do not use the flash light on the people who need a high degree of attention.  
Please take out the batteries and stop using immediately in case of below.  
● This product is dropped or shocked seriously and the inner part of the product is bared.  
● If the battery leaks corrosive liquids, please take out the battery with gloves.  
● The product gives off strange smell, smokes or heats.  
● Do not disassemble or maintain this product. Touching the internal high voltage circuit will cause electric shock.  
Remove batteries during non-use.

### II. Features

YN460-TX and YN460-RX is a set of new 2.4G wireless TTL flash system, the characteristics of which is as follows:  
● **2.4G wireless TTL flash supported**  
2.4G wireless TTL flash has been achieved to help you seize every precious moment.  
● **Multiple wireless flash control supported**  
YONGNUO design a TTL group and two M groups for the wireless flash system, every group can be adjusted output level independently.  
● **Remote Power Control on YN460-TX**  
It's easy to control the output level of wireless speedlites on YN460-TX, so you won't move back and forth between camera and speedlites, the efficiency will increase by more than 60%.  
● **Rear-curtain sync supported as well as FEC, FEB**  
● **Two PC ports for synchronous IO**  
There are two PC ports, one in which is used for signal input, and the other is for the synchronous signal output. In particular, the PC port for the output also supports the synchronous rear-curtain.  
● **Wide-angle wireless flash control**  
It achieves the remote wireless flash control with the maximum distance of 200m.  
● **There are seven user-configurable wireless channels that can effectively prevent the wireless interference, and maximize the reliable use in the complex environment**  
● **Support for up to 16 YN460-RX speedlites**  
A YN460-TX can make 16 YN460-RX speedlites flash at the same time, which can provide the better creativity, achieving the speedlights applied in large-scale night illumination.

### ● Flash management function

The YN460-TX has flash management function, which enables you to turn on or turn off each of YN460-RX (first 7 RX paired to the TX) remotely. This function helps you to confirm the lighting effect of each YN460-RX.

### III. Quick Start

If you don't have much time to read the whole user manual, we advise you to read this section.

#### 1. Wireless connection pairing

You need to make the wireless connection pairing for the YN460-TX and the YN460-RX before the first usage as follows:  
Turn on the YN460-TX and the YN460-RX at the same time, meanwhile press the CH button and hold on for about 5 seconds.  
The wireless connection pairing is successful if all the YN460-TX and YN460-RX group indicator lights are on at the same time.

#### 2. How to use as wireless TTL lighting

Set the YN460-RX to M1 group and connect the YN460-TX to the camera. Now, the YN460-RX becomes a wireless TTL speedlite and you can start to shoot.

#### 3. How to use as wireless TTL group of remote controllable manual speedlites

Set on the YN460-RX to M1 group and connect to M2 group, connect the YN460-TX to the camera, and then the output level of the M1 and M2 groups can be set on the YN460-TX. You can control 2 YN460-RX output level separately!

#### 4. How to set YN460-RX's group on YN460-TX

Set YN460-RX to WX group and the actual YN460-RX group will keep the same as the last group of the YN460-TX.

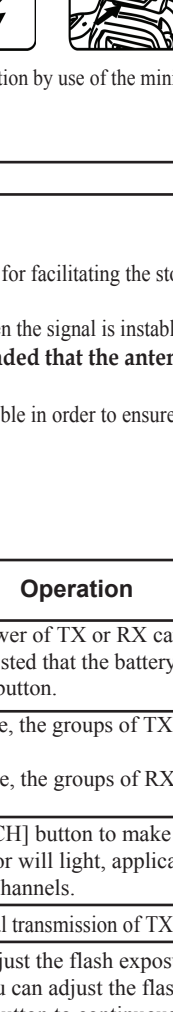
#### 5. Abnormal situation

If there is a abnormality, please turn off the YN460-TX and YN460-RX and then turn on again, try to re-make the wireless connection pairing. For any additional abnormality, you can reset the YN460-TX by pressing the MODE + CH button and hold for about 10 seconds.

### IV. Nomenclature

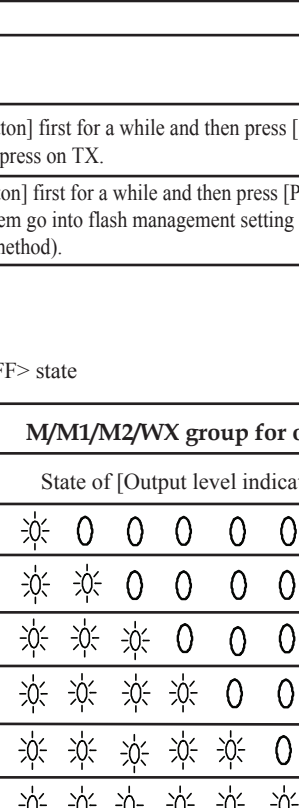
YN460-TX ( Hereinafter referred to as TX )

- Antenna interface
- PC port ( for input and connecting with the camera only )
- PC port ( for output and connecting with the speedlite only )
- AF LED
- Battery chamber's cover
- Locking ring
- The shoe stand
- The shoe contact



### YN460-RX ( Hereinafter referred to as RX )

- Reflection board
- Wide-angle diffuser
- Flash light's head
- Battery chamber's cover
- Wireless receiver YN460-RX
- Locking ring
- Hot shoe stand
- Hot shoe contact



### 28. Group indicator:

It indicates the current flash group(TTL,M1,M2).

### 11. Output level/Channel indicator:

The flash brightness or exposure compensation will be indicated when setting the output power, and the number of current channel will be indicated when setting the channel.

### 12. AF LED switch indicator:

A long time-lighting indicates that the AF LED is turned on, and a long time non-lighting indicates that the AF LED is turned off.

### 13. Charging indicator/test button:

It indicates the current charging state, and it can also test the flash if you press this button.

### 14. Channel switch button:

The channels will switch among the 1~7 in circle for each press.

### 15. Rear-curtain switch indicator:

A long time-lighting indicates that the Rear-curtain sync is opened, a long time non-lighting indicates that the Rear-curtain sync is closed.

### 16. Power switch button:

You can adjust the output level by setting [+/-] button.

### 17. Wireless link indicator:

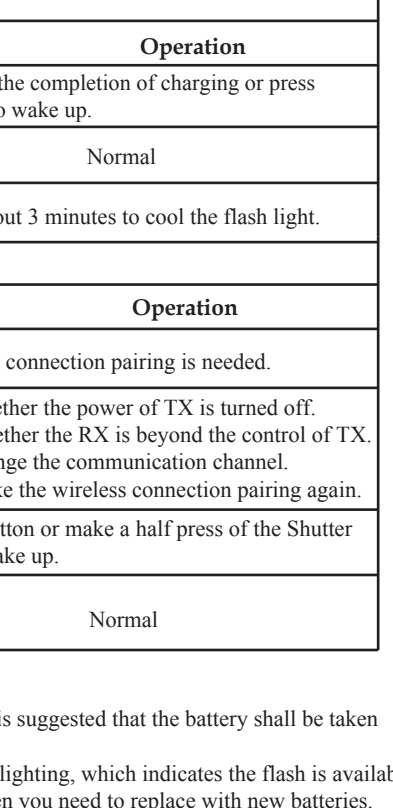
It indicates the current status of wireless connection, and it will blink slowly when sleep.

### 18. Power switch:

Power can be opened or closed by holding this button for 2 seconds.

### 19. Group switch button:

You can set the wireless flash control groups with this button.



### 20. Reflection board

### 21. Wide-angle diffuser

### 22. Flash light's head

### 23. Battery chamber's cover

### 24. Wireless receiver YN460-RX

### 25. Locking ring

### 26. Hot shoe stand

### 27. Hot shoe contact

### 28. Group indicator:

It indicates the current flash group(M,WX,WT,M1,M2).

### 11. Output level/Channel indicator:

The flash brightness or exposure compensation will be indicated when setting the output power, and the number of current channel will be indicated when setting the channel.

### 13. Charging indicator/test button:

It indicates the current charging state, and it can also test the flash if you press this button.

### 14. Channel switch button:

The channels will switch among 1~7 in circle for each press.

### 32. Power switch button:

You can adjust the output level by setting [+/-] button.

### 33. Wireless link indicator:

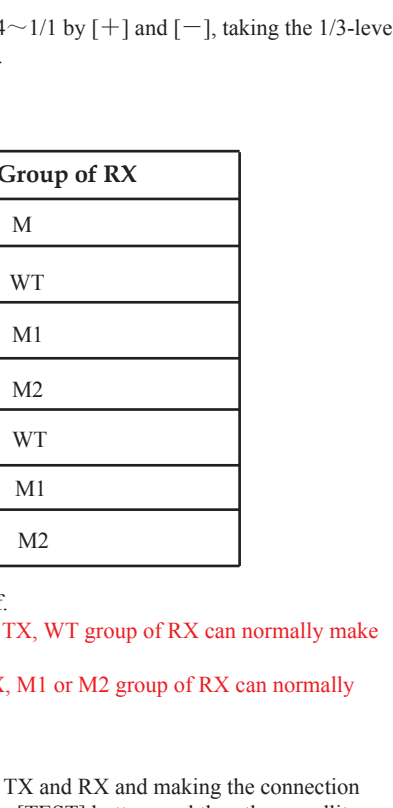
It indicates the current status of wireless connection, and it will flash slowly when sleep.

### 34. Power switch:

Power can be opened or closed by holding this button for 2 seconds.

### 35. Group switch button:

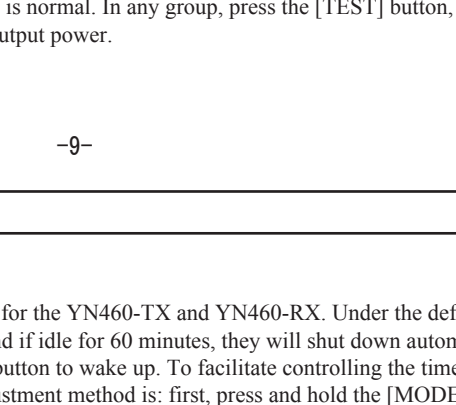
You can set the wireless flash control groups with this button.



### V. Installation Instruction

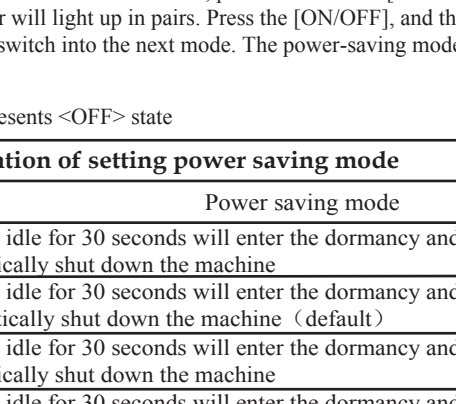
#### 1. Install Batteries

TX  
Slide the batteries chamber's cover in the direction of the arrow. Push down the ribbon at the bottom of battery compartment in order to remove the batteries. Insert the batteries according to the label inside battery chamber. Make sure the direction of the batteries' polarity is correct. At first, install two batteries in the interior of battery compartment.  
You can pull the ribbon to remove all the batteries.  
Close the battery chamber cover in the direction of the arrow.



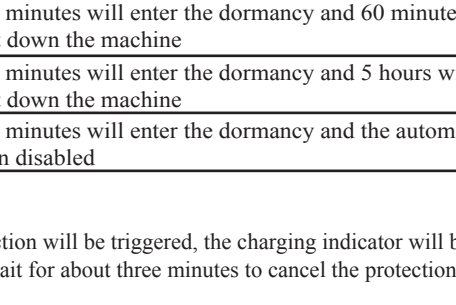
#### RX

Slide the batteries chamber's cover in the direction of the arrow.  
Insert the batteries according to the label inside battery chamber.  
Make sure the direction of the batteries' polarity is correct.  
Close the battery chamber cover in the direction of the arrow.



#### 2. Mount the TX on your camera

Loosen the locking ring by turning it in the direction of the arrow.  
Slide the TX's hot shoe stand into the camera's hot shoe stand until it stops.  
Turn the locking ring in the direction of the arrow tighter.  
To detach the TX, loosen the locking ring by turning it in the opposite direction



**Note:**The wireless speedlites RX corresponding with TX can be placed in your desired location by use of the mini-size base.

### 3. Install Antenna

Install the antenna in the TX antenna interface, and tighten it clockwise; and after using it, for facilitating the storage, you can rotate it counterclockwise to unscrew it.

After the antenna is fixed, you can rotate the antenna to multiple position options. When the signal is unstable, you can try to turn the antenna to adjust the emission direction in order to improve the signal transmission. **It is recommended that the antenna should be perpendicular to the ground when using it.**

For the RX, the wireless receiving module on the RX should be towards TX as far as possible in order to ensure normal transmission.

### VI. Basic Functions

#### 1. Basic Operations

Operation of the buttons:

| Component           | Scope of Application | Operation  |
|---------------------|----------------------|--|
| [Power Switch]      | TX/RX                | Power switch of TX or RX. The power of TX or RX can be opened or closed by holding this button for 2 seconds. It is suggested that the battery shall be taken out after the power of TX or RX is closed through this button.   |
| [MODE Button]       | TX/RX                | On the TX, if you press it every time, the groups of TX will be switched in the cycle of TTL/M1/M2.<br>On the RX, if you press it every time, the groups of RX will be switched in the cycle of M/WX/WT/M1/M2.   |
| [CH Button]         | TX/RX                | After the paired link, LINK indicator will light, applicable for flashing, make a short press of [CH] button to switch the channels.   |
| [Test Button]       | TX/RX                | Press this button to test the radio signal transmission of TX or the output brightness of RX.  |
| [+] and [-] Button  | TX/RX                | In the TTL group state, you can adjust the flash exposure compensation by this button. And in the other group statuses, you can adjust the flash brightness by this button. Make a long press of [+] or [-] button to continuously adjust the exposure compensation or flash brightness. |
| [MODE Button] + [+] | TX                   | It is only available for the version of Canon. Please press the [MODE Button] first for a while and then press [+] button. The speedlight will switch between pre-certain sync and rear-certain sync for each press on TX.   |

|                         |    |  |
|-------------------------|----|--|
| [MODE Button] + [-]     | TX | Please press the [MODE Button] first for a while and then press [-] button. The switch of the focus light will open or close for each press on TX.   |
| [MODE Button] + [PILOT] | TX | Please press the [MODE Button] first for a while and then press [PILOT] on TX. The group indicators will blink and the flash system go into flash management setting state (please read The Advanced Application for detail use method). |

#### Meaning of [Output level indicator]

☼ represents <ON> state of indicator's light, while ○ represents <OFF> state

| TTL (TX)/WT (RX) group for exposure compensation |                       |                             |      | M/M1/M2/WX group for output power control |              |  |  |
|--|-----------------------|-----------------------------|------|---|--------------|--|--|
| State of [Output level indicator]                | Exposure Compensation |                             |      | State of [Output level indicator]         | Output level |  |  |
| ☼ ☼ ☼ ☼ ○ ○ ○                                    | -3ev                  | ☼ ○ ○ ○ ○ ○ ○ ○             | 1/64 |   |              |  |  |
| ○ ☼ ☼ ☼ ○ ○ ○ ○                                  | -2ev                  | ☼ ☼ ○ ○ ○ ○ ○ ○ ○           | 1/32 |   |              |  |  |
| ○ ○ ☼ ☼ ○ ○ ○ ○                                  | -1ev                  | ☼ ☼ ☼ ○ ○ ○ ○ ○ ○ ○         | 1/16 |   |              |  |  |
| ○ ○ ○ ☼ ○ ○ ○ ○                                  | 0ev                   | ☼ ☼ ☼ ☼ ○ ○ ○ ○ ○ ○ ○       | 1/8  |   |              |  |  |
| ○ ○ ○ ○ ☼ ○ ○ ○                                  | +1ev                  | ☼ ☼ ☼ ☼ ☼ ○ ○ ○ ○ ○ ○ ○     | 1/4  |   |              |  |  |
| ○ ○ ○ ○ ○ ☼ ○ ○                                  | +2ev                  | ☼ ☼ ☼ ☼ ☼ ☼ ○ ○ ○ ○ ○ ○ ○   | 1/2  |   |              |  |  |
| ○ ○ ○ ○ ○ ○ ☼ ○                                  | +3ev                  | ☼ ☼ ☼ ☼ ☼ ☼ ☼ ○ ○ ○ ○ ○ ○ ○ | 1/1  |   |              |  |  |

#### Meaning of [PILOT] and [LINK] indicator

| [PILOT] indicator    |  |   |
|----------------------|--|---|
| Status               | Meaning  | Operation   |
| A long-time off      | It has not been fully charged or it is in the sleep state.                                   | Waiting for the completion of charging or press any button to wake up.  |
| A long-time lighting | It is fully charged, and can be used   | Normal  |
| Blinking             | The flash light is locked to prevent overheating due to frequent flashing.                   | Wait for about 3 minutes to cool the flash light.   |
| [LINK] indicator     |  |   |
| Status               | Meaning  | Operation   |
| A long-time off      | Not connected between TX and RX  | The wireless connection pairing is needed.  |
| Fast blinking        | RX is under the Channel Search.  | a. Check whether the power of TX is turned off.<br>b. Check whether the RX is beyond the control of TX.<br>c. Try to change the communication channel.<br>d. Try to make the wireless connection pairing again. |
| Slow blinking        | TX or RX is in the Sleep state.  | Press any button or make a half press of the Shutter button to wake up.   |
| A long-time lighting | After completing the connection pairing between TX and RX, you can make the flash operation. | Normal  |

#### 2. Power-on and Power-off

For the power of the TX or RX, the wireless connection pairing is needed before using it.  
Press the [CH] button on the panel, and the channels by the [CH] button of TX or RX panel, and there are seven channels to be chosen; Press the [CH] button again to switch to the next channel. Thus, if the channel that is being used is disturbed, you can switch to other channels in order to effectively avoid radio interference from the outside.

Make sure the charging channels on the RX, please make sure the communication between TX and camera is normal, and TX must be closer to the range of RX.

#### 5. Group and Brightness Settings of YN460-TX

● In the TTL group state, you can adjust the flashing exposure compensation with the range of -3ev ~ +3ev by [+] and [-] button, taking the 1/3-level as the fine-tuning amount of increase or decrease, and there are a total of 19-level fine-tuning.

● In the M1/M2 group state, you can adjust the flashing output control with the range of 1/64 ~ 1/1 by [+] and [-] button, taking the 1/3-level as the fine-tuning amount of increase or decrease, and there are a total of 19-level fine-tuning.

**Note:** During fine-tuning the flash exposure compensation or flash brightness, if the output indicator blinks, it shows that it is taking 1/3 or 2/3-level as the amount of fine-tuning to increase or decrease. For canon version, the compensation setting of TX will override the exposure compensation setting on the camera.

#### 6. Group and Brightness Settings of YN460-RX

● In the M group state, RX wireless control is turned off, and it will be used only as the manual speedlite under the 7-level brightness (1/64 ~ 1/1). For Canon version, the exposure compensation function on camera is available only in TTL mode.

● In the WX group state, the group selection of RX will be entirely subordinate to the group settings of TX, that is to say, when the group settings of TX is switched in the TTL/M1/M2 cycle, the actual group selection of RX will be switched in the WT/M1/M2 cycle; and the WX indicator will light up at the same time with WT/M1/M2.

● In the TX group state, you can adjust the flashing exposure compensation with the range of -3ev ~ +3ev by [+] and [-] button, taking the 1/3-level as the fine-tuning amount of increase or decrease, and there are a total of 19-level fine-tuning.

● In the M1/M2 group state, you can adjust the flashing output control with the range of 1/64 ~ 1/1 by [+] and [-] button, taking the 1/3-level as the fine-tuning amount of increase or decrease, and there are a total of 19-level fine-tuning.

**Note:** The exposure compensation of TX and RX can be superimposed.

#### 7. Control Relation between TX Group and RX Group

| TX     | RX | Actual Group of RX |
|--------|----|--------------------|
| Random | WT | M                  |
| Random | M  | WT                 |
| Random | M1 | M1                 |
| Random | M2 | M2                 |
| TTL    | WX | WT                 |
| M1     | WX | M1                 |
| M2     | WX | M2                 |

**Note:** When selecting the M group for the RX, even if M1 or M2 group is selected for the TX, WT group of RX can normally make TTL flashing.

When selecting the M1 or M2 group for RX, even if TTL group is selected for the TX, M1 or M2 group of RX can normally flash according to the selected output power.

#### 8. Test Flashing

You can test flashing respectively on the YN460-TX and YN460-RX. After powering on the TX and RX and making the connection pairing, press the [TEST] button to test whether the flashing is normal. In any group, press the [TEST] button, and then the speedlite will give the different brightness according to the selected output power.

#### 9. Power-saving Mode

To save power, YONGNUO designs the power-saving mode for the YN460-TX and YN460-RX. Under the automatic state, if TX and RX are idle for about 30 seconds, they will go into the Sleep state, and if idle for 60 minutes, they will shut down automatically. In the Sleep state, you can press any button or make a half press of the shutter button to wake up. To facilitate controlling the time during the lighting process, you can also adjust the power-saving mode as you like. Adjustment method is: first, press and hold the [MODE] button, and then press the [ON/OFF] button, after which you can take photo. (The function can be used only when it is supported by your camera. For the setting method, refer to your Camera Instructions.)

The current settings of power-saving mode, and press it again to switch into the next mode. The power-saving mode indicated by the indicator is shown as follows:

☼ represents <ON> state of indicator's light, while ○ represents <OFF> state

| Application of setting power saving mode |   |
|--|---|
| State of indicator                       | Power saving mode   |
| ☼ ○ ○ ○ ○ ○ ○ ○                          | Keeping idle for 30 seconds will enter the dormancy and 30 minutes will automatically shut down the machine.          |
| ☼ ○ ○ ○ ○ ○ ○ ○                          | Keeping idle for 30 seconds will enter the dormancy and 60 minutes will automatically shut down the machine (default) |
| ☼ ○ ○ ○ ○ ○ ○ ○                          | Keeping idle for 30 seconds will enter the dormancy and 5 hours will automatically shut down the machine              |
| ☼ ○ ○ ○ ○ ○ ○ ○                          | Keeping idle for 30 seconds will enter the dormancy and the automatic shutdown function disabled                      |
| ○ ☼ ○ ○ ○ ○ ○ ○ ○                        | Keeping idle for 5 minutes will enter the dormancy and 30 minutes will automatically shut down the machine            |
| ○ ○ ☼ ○ ○ ○ ○ ○ ○                        | Keeping idle for 5 minutes will enter the dormancy and 60 minutes will automatically shut down the machine            |
| ○ ○ ○ ☼ ○ ○ ○ ○ ○                        | Keeping idle for 5 minutes will enter the dormancy and 5 hours will automatically shut down the machine               |
| ○ ○ ○ ○ ☼ ○ ○ ○ ○                        | Keeping idle for 5 minutes will enter the dormancy and the automatic shutdown function disabled                       |

#### 10. Overheating protection

If the flash light is used too frequently, its overheating protection function will be triggered, the charging indicator will blink alternatively, and the flash light will be locked. In such case, please wait for about three minutes to cancel the protection before

#### containing the use.

Please try to use the 1/4 output or lower when rapid shooting is needed to prevent the effect on the shooting.

#### 11. Menu Access of Camera (only for the more recent Canon models)

For the more recent models of Canon supporting the menu access, you can set some advanced functions of TX through the camera menu. For example, you can set the pre-certain sync, rear-certain sync, exposure compensation, exposure bracketing.

### VII. The Advanced Application

#### 1. Ultra-long-range Wireless Control

The distance of wireless flash control can be up to 200 meters.

At the outdoor, to ensure the success of wireless remote flash control, please pay attention to the following aspects:

- Any obstacle can't be found between the transmitter and receiver because it will block the transmission of wireless signal.
- Please erect the antenna on the transmitting terminal, which is more conductive to the emission of wireless signal.
- Please erect the body of the machine on the receiving terminal, and try to make the receiving module of speedlite towards the transmitting terminal as possible (you can rotate the flash light's head of RX for this purpose).



**Note:** This function not only be applicable to Canon, Nikon cameras, but also applicable to other brands of cameras.

#### 2. The fine tuning function of output power

YN460-TX and YN460-RX have the fine-tuning function of output power, by which you can make a more subtle adjustment for the flashing output. For example, if there is the 1/3-level amount of increase or decrease for each exposure compensation or flashing brightness, and there is a total of 19-level fine-tuning.

During fine-tuning the flash exposure compensation or flash brightness, if the output indicator blinks, it shows that it is taking 1/3 or 2/3-level as the amount of fine-tuning to increase or decrease.

**Note:** The exposure compensation of TX and RX can be superimposed.

#### 3. Release the connection pairing

If the RX is lost or second-hand, the TX is needed to release all the connection pairing.

The methods of releasing the connection pairing: first, press and hold the [MODE] button, and then make a long press of [CH] button, and the output level indicator will flash until all the indicators light up, indicating the connection pairing has been released.

If multiple RX controlled on TX, each RX can release the connection pairing by itself independently through the same operation methods, and does not effect the use of other RX, all the group indicator on RX will light on, indicating it has released the connection pairing successfully.

#### 4. Rear-curtain Sync

You can use slow-speed shutter to produce trailing smear for the object and the flash light will flash at the moment when the shutter is going to be shut, which means the rear-curtain sync function. (For the rear-curtain sync setting, refer to your camera manual for setting.)

The methods of setting on the TX: Please press the [MODE] button for a while and then press [+] button. The speed light will switch between pre-certain sync and rear-certain sync for each press.

**Note:** Rear-curtain Sync on the TX is applicable for only the Canon version, and it should be set on the camera for Nikon version.

#### 5. Exposure Compensation

You can use the exposure compensation function of this camera to compensate flash output so as to make shooting effect better meet your requirements.

In the TTL group of TX or RX, you can also make compensation of flash brightness with the [Output control knob] within the range of ±3ev, with the precision of 1/3ev. The exposure compensation of TX and RX can be superimposed.

**Note:** For canon version, this compensation setting will override the exposure compensation setting on the camera.

#### 6. Exposure Bracketing (FEB)

The FEB function is set on the camera. For the specific setting method, refer to your Camera Instructions. After the FEB is set, after 3 pictures are taken, exposure compensation will be automatically implemented in the sequence of, for example, "normal → under → over".

This function helps you improve the success rate of photo taking.

#### 7. Flash Management

If multiple RX controlled on TX, in this case, you manage the working status of each flash through settings on TX. This function helps you to confirm the lighting effect of each RX.

The setting methods: Press the [MODE] button for a while and then press [PILOT] button, the group indicators blink and the flash system go into flash management setting status, the output power indicator will light up at the same time to indicate the number of the current RX.

Press [+] or [-] button, corresponding position of the output power indicator will blink and indicate you have selected the appropriate RX. In this moment, you can turn on or turn off the appropriate through pressing